



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,054	10/23/2003	Peter D. Costantino	14596-105002US1	7277
65989	7590	12/07/2007		
KING & SPALDING 1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036-4003			EXAMINER SEVERSON, RYAN J	
			ART UNIT 3731	PAPER NUMBER
			NOTIFICATION DATE 12/07/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptomailnyc@kslaw.com

## Office Action Summary

Application No.

10/692,054

Applicant(s)

COSTANTINO ET AL.

Examiner

Ryan Severson

Art Unit

3731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 13 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 26-58 and 61-67 is/are pending in the application.
- 4a) Of the above claim(s) 31, 44-49, 61 and 62 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 26-30, 32-43, 50-58 and 63-67 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 September 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Specification***

1. The disclosure is objected to because it appears there are errors present in the Brief Description of Drawings section. It appears the descriptions designating figures 6, 7, 10, and 11 are incorrect. The description of figure 6 says a side view of an embodiment shaped like a bowl with a flat bottom, but shows a longitudinal cross section of a saccular aneurysm and corresponding artery segment showing an embodiment of the present invention. The description of figure 7 says a side view of an embodiment of figure 6, but shows a longitudinal cross section of a saccular aneurysm and corresponding artery segment showing an alternate embodiment of the present invention. The description of figure 10 says an embodiment covering the neck of an aneurysm, but shows a side view of an embodiment shaped like a bowl having a flat bottom. The description of figure 11 says a longitudinal cross section of an artery, but shows a top view of the embodiment shown in figure 10.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 26-30, 33-43, 50, 58, and 63, 64, and 67 are rejected under 35 U.S.C. 102(b) as being anticipated by Greene, Jr. et al. (6,165,193).** Greene, Jr. et al. (hereinafter Greene) reference discloses a device having a polymeric matrix implant (20, see figure 2) that is capable of expanding from a compressed configuration (see figure 8) to an expanded configuration (see figure 10). The implant supports an aneurysm wall and has a fluid path there through (the pores provide a fluid path). The device further includes a projecting portion (34). A further element (22) is strut-like and is capable of helping support the aneurysm wall and is made of a different material than the implant (20).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 32, 51-53, and 65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greene, Jr. et al. (6,165,193).**

6. Regarding claim 32, Greene reference does not disclose a second implant. Although the reference does not disclose a plurality of implants, the courts have held that mere duplication of parts has no patentable significance unless a new and unexpected result is produced. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960)

7. Regarding claims 51-53 and 65, Greene reference does not disclose the range of pore diameter sizes as claimed. However, the courts have held where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955)

8. **Claims 54, 55, and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greene, Jr. et al. (6,165,193) in view of Spaans et al. (6,784,273).**

Greene reference does not disclose the foam is polyurethane with a polycarbonate polyol component and an isocyanate component. Attention is drawn to Spaans et al. (hereinafter Spaans) reference, which teaches a polymeric foam for implants (see column 1, lines 65-67) may be polyurethane (see title) with an isocyanate component (see column 1, lines 56-59) and a polycarbonate component (see column 2, lines 49-54) to provide a device that has good mechanical properties but is lightweight and flexible. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the polymeric foam implant of Greene reference with polyurethane having isocyanate and polycarbonate components, as taught by Spaans reference, to provide a device that has good mechanical properties but is lightweight and flexible.

9. **Claims 56 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greene, Jr. et al. (6,165,193) in view of Slaikeu et al. (6,231,590).** Greene reference does not disclose the foam further includes growth factors or elastin. Attention is drawn to Slaikeu et al. (hereinafter Slaikeu) reference, which teaches an implant may include elastin and/or growth factors (see column 7, lines 15-21) to promote cellular ingrowth between the implant site and the implant itself. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include elastin and growth factors in the implant of Greene reference, as taught by Slaikeu reference, to promote cellular ingrowth between the implant site and the implant itself.

#### ***Response to Arguments***

10. Applicant's arguments with respect to remaining independent claims 63 and 67 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

12. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

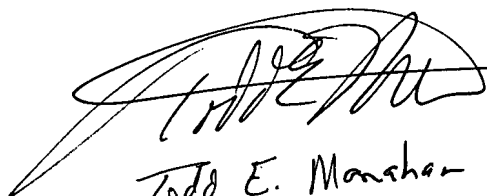
13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Severson whose telephone number is (571) 272-3142. The examiner can normally be reached on Monday - Friday 9:00 - 5:30.

14. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Todd Manahan can be reached on (571) 272-4713. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

15. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

R.S.

Ryan Severson  
November 28, 2007

  
Todd E. Manahan  
SPE 3731